

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	09/920,133	KUBOTA, KAZUNOBU
	Examiner	Art Unit
	Daniel Swerdlow	2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to amendment filed 27 June 2006.
2.  The allowed claim(s) is/are 1-18.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All    b)  Some\*    c)  None    of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:
2. Regarding Claim 1, US Patent 5,987,142 to Courneau et al. discloses a sound spatialization system that: receives n sound source inputs (column 3, lines 13-16) that correspond to the M sound source signals claimed; receiving an information element (i.e., attribute) for each signal source, the information including elevation and relative bearing (i.e., localization position information), distance (i.e., position information) and changes in localization (i.e., movement information) (column 3, lines 35-46); simultaneously spatializing n2 distinct sources that correspond to the N groups claimed where n2<=n (i.e., N<=M) (column 3, lines 24-28). Courneau further discloses a source management device 12 that receives the n (i.e., M) source signals, and presents the n2 grouped signals to an orienting device 13 (i.e., stores and reads out the N grouped sound source signals) that provides a control signal with position information (Fig. 3, reference 13; column 4, lines 41-45); and spatializes (i.e., performs virtual positioning) on the n2 (i.e., N) distinct sources (i.e., grouped sound source signals) (column 3, lines 24-28) based on the control signal with position information and the information elements that correspond to the grouped attributes claimed to produce left and right sound outputs for a stereophonic headphone (column 4, lines 59-63). However, Courneau does not disclose arranging the information elements that correspond to the attributes claimed in groups corresponding to the groups of sound source signals. Similarly, US Patent 6,021,206 to McGrath and US Patent 5,438,623 to Begault disclose multi-channel spatialization systems for audio signals but fail to disclose arranging sound source attributes in groups corresponding to groups of sound source signals. Because the prior art fails to disclose or suggest every element, the claim is allowable.

3. Claims 9, 15 and 17 are essentially similar to Claim 1 and are allowable for the same reasons.

4. Claims 2 through 8, 10 through 14, 16 and 18 are allowable due to dependence from their respective base claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Swerdlow whose telephone number is 571-272-7531. The examiner can normally be reached on Monday through Friday between 7:30 AM and 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh H. Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Daniel Swerdlow  
Primary Examiner  
Art Unit 2615

ds  
24 August 2006